507639655 12/09/2022

# PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2 EPAS ID: PAT7686550

SUBMISSION TYPE:	CORRECTIVE ASSIGNMENT
NATURE OF CONVEYANCE:	Corrective Assignment to correct the ASSIGNEE NAMES, BY ADDING ASSIGNEE NOKIA SHANGHAI BELL CO., LTD. previously recorded on Reel 053616 Frame 0392. Assignor(s) hereby confirms the ASSIGNEES ARE: 1) NOKIA SOLUTIONS AND NETWORKS OY AND 2) NOKIA SHANGHAI BELL CO., LTD

## **CONVEYING PARTY DATA**

Name	Execution Date
CHENG WANG	08/16/2020

#### **RECEIVING PARTY DATA**

Name:	NOKIA SOLUTIONS AND NETWORKS OY
Street Address:	KARAKAARI 7
City:	ESPOO
State/Country:	FINLAND
Postal Code:	02610
Name:	NOKIA SHANGHAI BELL CO., LTD.
Street Address:	388 NINGQIAO ROAD
City:	SHANGHAI
State/Country:	CHINA
Postal Code:	201206

## **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16760117

#### CORRESPONDENCE DATA

**Fax Number:** (704)444-1111

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent

using a fax number, if provided; if that is unsuccessful, it will be sent via US Mail.

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Email: usptomail@alston.com
Correspondent Name: ALSTON & BIRD LLP

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Address Line 4: CHARLOTTE, NORTH CAROLINA 28280-4000

ATTORNEY DOCKET NUMBER: 042933/545861

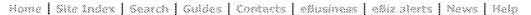
NAME OF SUBMITTER: TORREY L. WYATT

PATENT 507639655 REEL: 062168 FRAME: 0123

SIGNATURE:	/Torrey L. Wyatt/
DATE SIGNED:	12/09/2022
Total Attachments: 6	
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## United States Patent and Trademark Office





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## PATENT ASSIGNMENT COVER SHEET

Electronic Version v1.1 Stylesheet Version v1.2

SUBMISSION TYPE:	NEW ASSIGNMENT
NATURE OF CONVEYANCE:	ASSIGNMENT

## **CONVEYING PARTY DATA**

Nam	Execution Date
CHENG WANG	08/16/2020

#### RECEIVING PARTY DATA

2. NOKIA SHANGHAI BELL CO., LTD. 388 Ningqiao Road

Shanghai, CHINA 201206

Name: 1.	NOKIA SOLUTIONS AND NETWORKS OY
Street Address:	KARAKAARI 7
City:	ESPOO
State/Country:	FINLAND
Postal Code:	02610

#### **PROPERTY NUMBERS Total: 1**

Property Type	Number
Application Number:	16760117

#### CORRESPONDENCE DATA

Fax Number: (704)444-1111 Phone: 7044441000 usptomail@alston.com

Correspondence will be sent to the e-mail address first; if that is unsuccessful, it will be sent using a fax

number, if provided; if that is unsuccessful, it will be sent via US Mail.

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Correspondent Name: ALSTON & BIRD LLP Address Line 1: BANK OF AMERICA PLAZA, 101 SOUTH TRYON STREET Address Line 2: SUITE 4000 Address Line 4: CHARLOTTE, NORTH CAROLINA 28280-4000		
ATTORNEY DOCKET NUMBER:	042933/545861	
NAME OF SUBMITTER:	GUY R. GOSNELL	
Signature:	/Guy R. Gosnell/	
Date:	08/27/2020	
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<b>EPAS ID:</b> PAT6271010 <b>Receipt Date:</b> 08/27/2020		

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#### **ASSIGNMENT - WORLDWIDE**

#### ASSIGNOR(S)

Name	City	Country
Cheng Wang	Shanghai	China

(Full legal name, city and country of each inventor)

#### **ASSIGNEE**

#### Nokia Shanghai Bell Co., Ltd.

388 Ninggiao Road, Shanghai, 201206, People's Republic of China

#### **NOKIA SOLUTIONS AND NETWORKS OY**

Karakaari 7, 02610 Espoo, Finland

For good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the ASSIGNOR(S) agree to assign and hereby assign, sell, transfer and set over to the ASSIGNEE and its successors, assigns and legal representatives, the entire right, title and interest, for United States of America and for all other countries in and to (1) the invention(s) identified by the following title or application number and filing date, and (2) any and all related inventions ("RELATED INVENTIONS" as defined below).

# Application Title: A METHOD, APPARATUS AND SYSTEM FOR REAL-TIME VIRTUAL NETWORK FUNCTION ORCHESTRATION

Application number: WO PCT/CN2017/108653 Filing date: 2017-10-31

(YYYY-MM-DD)

I/we, the ASSIGNOR(S), hereby authorize and request a representative of the ASSIGNEE to insert the application title, application number and filing date when known/received, after the execution of this document. The ASSIGNOR(S) hereby acknowledge and agree that the ASSIGNEE shall have the right to claim priority, directly or through another patent application, to the application identified above in any and all related patent applications subsequently filed in all jurisdictions.

I/we the ASSIGNOR(S) hereby acknowledge and agree that RELATED INVENTIONS include all national, regional and international patent applications filed and to be filed in any and all jurisdictions, that claim priority to the invention(s) identified by the above title or application number and filing date, said patent applications include all divisionals, continuations, re-issues, re-examinations, and continuations-in-part applications, and RELATED INVENTIONS include all rights and privileges in said patent applications and under any and all letters patent that may be granted in the United States of America and in all other countries resulting from said patent applications.

The ASSIGNOR(S) authorize the ASSIGNEE to make applications for such protection in its own name and maintain such protection in any and all countries including the United States of America, and to invoke and claim for any application for patent or other form of protection for said invention(s),

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without further authorization from us, any and all benefits, including the rights of priority provided by any and all treaties, conventions, or agreements.

The ASSIGNOR(S) hereby consent that a copy of this assignment shall be deemed a full legal and formal equivalent of any document which may be required in any country in proof of the right of the ASSIGNEE to apply for patent or other form of protection for said invention(s) and to claim the aforesaid benefit of the right of priority.

The ASSIGNOR(S) request that any and all patents for said invention(s) be issued to the ASSIGNEE, its/their successors, assigns and legal representatives, in the United States of America and in all other countries, or to such nominees as the ASSIGNEE may designate.

The ASSIGNOR(S) agree that, when requested, we shall, without charge to the ASSIGNEE sign all papers, and do all acts which may be necessary, desirable or convenient in connection with said applications, patents, or other forms of protection.

The ASSIGNOR(S) and ASSIGNEE agree that this assignment may be executed by either handwritten signatures, including the exchange of scanned representations of handwritten signatures, or e-signatures. By using e-signature to sign this assignment, the ASSIGNOR(S) and ASSIGNEE acknowledge that execution in this manner creates a binding contract between the ASSIGNOR(S) and ASSIGNEE.

Each inventor/assignor please sign and date below:

Inventor (First Middle Last)

Signature

Date

Cheng Wang

Thems Wang (Aug 16, 1420 Xers 7 (1887-18)

Aug 16, 2020

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The ASSIGNEE accepts this assignment:

Nokia Shanghai Bell Co., Ltd

**RECORDED: 12/09/2022** 

Name: Edward ZHANG Signature

Title: EDGM-Strategy & Innovation Date Aug 19, 2020 of Nokia Shanghai Bell Co., Ltd.

**NOKIA SOLUTIONS AND NETWORKS OY** 

Name: Anna Haipola Signature

Title: Authorized Signatory Date Aug 13, 2020

Name: Per Möller Signature

Title: Authorized Signatory Date Aug 13, 2020

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